

Claims (clean set):

1. A catheter for use in pelvic angiographic procedures comprising: a primary curve; a first tapered section; a secondary curve; and a second tapered section; and wherein the second tapered end section has at least one curve.
2. The catheter of claim 1 formed from a group of plastics that includes polyurethane, polyethylene and polyether block amide copolymer.
3. The catheter of claim 1, wherein the second tapered section tapers from an inner diameter of 0.035 inches to 0.018 inches, and wherein the outer diameter tapers from 4 french to 3 french.
4. The catheter of claim 1, wherein the overall length of the catheter is between 76 cm and 87 cm.
5. The catheter of claim 1, wherein the length from the primary curve to the secondary curve is between 14 cm and 17 cm.
6. The catheter of claim 1, wherein the length from the secondary curve to the catheter tip is between 3 cm and 8 cm.
7. The catheter of claim 1, wherein the start of the first tapered section begins between 2.0 cm and 3.0 cm beyond the primary curve, and wherein the taper is from an inner diameter of 0.038 inches to 0.035 inches and an outer diameter of 5 french to 4 french.
8. The catheter of claim 1, wherein the start of the second tapered section begins between 0.5 cm and 1.5 cm from the secondary curve.
9. The catheter of claim 1, wherein the overall length of the second tapered section is between 2.0 cm and 8.0 cm.
10. The catheter of claim 1, wherein the radius of the primary curve is between 1.0 cm and 1.2 cm, and wherein the angle of said primary curve is within a range between 180 and 420 degrees.
11. The catheter of claim 10, wherein the angle of said primary curve is 360 degrees.
12. The catheter of claim 1, wherein the angle of the secondary curve is between 90 and 100 degrees from the shaft.
13. The catheter of claim 1, wherein the catheter is formed from a braided material.

14. The catheter of claim 13, wherein the braided material is from a group that includes stainless steel.
15. The catheter of claim 1, wherein the catheter is impregnated with a radioopaque material.
16. The catheter of claim 15, wherein the radioopaque material is from a group that includes tungsten.
17. The catheter of claim 1, wherein the first tapered portion is made from a group of materials that include a polyether block amide copolymer.
18. The catheter of claim 1, wherein a hydrophilic coating is employed.
19. The catheter of claim 18, wherein the hydrophilic coating coats at least a portion of the catheter from the origin of the first tapered section to the tip.
20. The catheter of claim 1, including a hub at its origin.
21. The catheter of claim 20, wherein the length from the origin of the hub to the primary curve is between 59 cm and 62 cm.
22. The catheter of claim 20, wherein the hub is 1.0 to 2.0 cm in length and has an inner luminal diameter of 0.038 inches.
23. The catheter of claim 20, wherein the hub consists of polyurethane.
24. The catheter of claim 20, wherein the hub has an inner luminal diameter of 0.038 inches.
25. The catheter of claim 1 or 20, wherein a straightener extends on the outside of the catheter over a length between 2.0 cm and 3.0 cm.
26. The catheter of claim 25, wherein the straightener is made of polyurethane.
27. The catheter of claim 25, wherein the straightener is removeable.
28. The catheter of claim 1 or 20, wherein the second tapered section is formed from a flexible material.
29. The catheter of claim 1 or 20, wherein the second tapered section is formed from an elastic material.
30. The catheter of claim 1 or 20, wherein the second tapered section is formed from a soft material.

31. The catheter of claim 1 or 20, wherein the second tapered section is formed from a germ-retarding material.

32. (CANCELED)

33. The catheter of claim 1 or 20, wherein the thickness of the walls of the second tapered section changes along its length.

34. The catheter of claim 1 or 20, wherein the length of the second tapered section is at least 0.5 cm.

35. The catheter of claim 1 or 20, wherein the length of the second tapered section is variable.

36. The catheter of claim 1 or 20, wherein the second tapered section is detachable.

37. The catheter of claim 1 or 20, wherein the second tapered section is formed separately from the rest of the catheter.

38. The catheter of claim 1 or 20, wherein the second tapered section is formed separately from the rest of the catheter and includes attachment means for removably attaching to the secondary curve.

39. A catheter including a tapered end section; wherein the tapered end section has at least one curve.

40. The catheter of claim 39, wherein the tapered end section is formed from a flexible material.

41. The catheter of claim 39, wherein the tapered end section is formed from an elastic material.

42. The catheter of claim 39, wherein the tapered end section is formed from a soft material.

43. The catheter of claim 39, wherein the tapered end section is formed from a germ-retarding material.

44. The catheter of claim 39, wherein the tapered end section is formed from a braided material.

45. (CANCELED)

46. The catheter of claim 39, wherein the thickness of the walls of the tapered end section changes along its length.

47. The catheter of claim 39, wherein the length of the tapered end section is at least 0.5 cm.
48. The catheter of claim 39, wherein the length of the tapered end section is variable.
49. The catheter of claim 39, wherein the tapered end section is detachable.
50. The catheter of claim 39, wherein the tapered end section includes attachment means for removably attaching to a tip of the catheter.
51. The catheter of claim 39, wherein the tapered end section tapers from an inner diameter of 0.035 inches to 0.018 inches, and wherein the outer diameter tapers from 4 french to 3 french.
52. A tapered end section for a catheter; wherein the tapered end section has at least one curve.
53. The catheter of claim 52, wherein the tapered end section is formed from a flexible material.
54. The catheter of claim 52, wherein the tapered end section is formed from an elastic material.
55. The catheter of claim 52, wherein the tapered end section is formed from a soft material.
56. The catheter of claim 52, wherein the tapered end section is formed from a germ-retarding material.
57. The catheter of claim 52, wherein the tapered end section is formed from a braided material.
58. (CANCELED)
59. The catheter of claim 52, wherein the thickness of the walls of the tapered end section changes along its length.
60. The catheter of claim 52, wherein the length of the tapered end section is at least 0.5 cm.
61. The catheter of claim 52, wherein the length of the tapered end section is variable.
62. The catheter of claim 52, wherein the tapered end section is detachable.
63. The catheter of claim 52, wherein the tapered end section includes attachment means for removably attaching to a tip of the catheter.

64. The catheter of claim 52, wherein the tapered end section tapers from an inner diameter of 0.035 inches to 0.018 inches, and wherein the outer diameter tapers from 4 french to 3 french.

The examiner, again, is invited to contact the applicant at any time to discuss the application in order to expedite the prosecution as quickly as possible.

Courteously yours,



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